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Initial Patent Examination Division (703) 308-1202

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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY.DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/642,272	08/18/2003	1653	1386	58777.000012	23	32	8

CONFIRMATION NO. 3248

HUNTON & WILLIAMS LLP
Suite 1200
1900 K Street, N.W.
Washington, DC 20006-1109

FILING RECEIPT***OC000000012729848***

Date Mailed: 05/20/2004

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Filing Receipt Corrections, facsimile number 703-746-9195. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Fumiuki Hattori, Osaka, JAPAN;
Keijiro Sugimura, Osaka, JAPAN;
Mayumi Furuya, Osaka, JAPAN;

Assignment For Published Patent Application

DAIICHI SUNTORY PHARMA CO., LTD., Tokyo, JAPAN;
DAIICHI SUNTORY BIOMEDICAL RESEARCH, LTD., Osaka, JAPAN;

Domestic Priority data as claimed by applicant

This application is a CON of PCT/JP02/01358 02/18/2001

Foreign Applications

JAPAN 41003/2001 02/16/2001

If Required, Foreign Filing License Granted: 05/20/2004

Projected Publication Date: To Be Determined - pending completion of Sequence Disclosures

Non-Publication Request: No

Early Publication Request: No

Title

Therapeutic methods and agents for diseases associated with decreased expression of AOP-1 gene or AOP-1

Preliminary Class

435

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Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

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APPLICATION NUMBER	FILING OR 371 (c) DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/642,272	08/18/2003	Fumiyuki Hattori	58777.000012

HUNTON & WILLIAMS LLP
 Suite 1200
 1900 K Street, N.W.
 Washington, DC 20006-1109

CONFIRMATION NO. 3248
FORMALITIES LETTER



OC000000012729849

Date Mailed: 05/20/2004

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS
 CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE
 DISCLOSURES**

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Applicant is given **TWO MONTHS FROM THE DATE OF THIS NOTICE** within which to file the items indicated below to avoid abandonment. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

For questions regarding compliance to these requirements, please contact:

- For Rules Interpretation, call (703) 308-4216
- To Purchase PatentIn Software, call (703) 306-2600
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Filing Date Granted

Applicant is given **TWO MONTHS FROM THE DATE OF THIS NOTICE** within which to file the items indicated below to avoid abandonment. Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

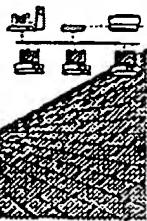
- A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CFR 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing." Applicant must provide a substitute computer readable form (CRF) copy of the "Sequence Listing" and a statement that the content of the sequence listing information recorded in computer readable form is identical to the written (on paper or compact disc) sequence listing and, where applicable, includes no new matter, as required by 37 CFR 1.821(e), 1.821(f), 1.821(g), 1.825(b), or 1.825(d).

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RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 101642,272
Source: Qipc
Date Processed by STIC: 8-28-03

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/cbc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to:
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7th Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202
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4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mallroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 04/24/2003

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/642,272

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1 Wrapped Nucleic
Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

3 Misaligned Amino
Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

5 Variable Length Sequence(s) _____ contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

6 PatentIn 2.0
"bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

7 Skipped Sequences
(OLD RULES) Sequence(s) _____ missing. If intentional, please insert the following lines for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

8 X Skipped Sequences
(NEW RULES) Sequence(s) 6 missing. If intentional, please insert the following lines for each skipped sequence.
<210> sequence id number
<400> sequence id number
000

9 Use of n's or Xaa's
(NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

10 Invalid <213>
Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence.

11 Use of <220> Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses.
Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)

12 PatentIn 2.0
"bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

13 Misuse of n n can only be used to represent a single nucleotide in a nucleic acid sequence. N is not used to represent any value not specifically a nucleotide.



OIPF

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/642,272

DATE: 08/28/2003
 TIME: 10:52:52

Input Set : C:\CRF4\Datashold\FC-8-C2-PCT.txt
 Output Set: N:\CRF4\08282003\J642272.raw

3 <110> APPLICANT: Brandt, Kevin S.
 4 Gaines, Patrick J.
 5 Stinchcomb, Dan T.
 6 Wisnewski, Nancy

8 <120> TITLE OF INVENTION: FLEA HEAD, NERVE CORD, HINDGUT AND MALPIGHIAN TUBULE NUCLEIC ACID

9 MOLECULES, PROTEINS AND USES THEREOF
 11 <130> FILE REFERENCE: FC-8-C2-PCT
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/642,272
 C--> 14 <141> CURRENT FILING DATE: 2003-08-18
 16 <150> PRIOR APPLICATION NUMBER: 60/328,347
 17 <151> PRIOR FILING DATE: 2001-10-10
 19 <160> NUMBER OF SEQ ID NOS: 350
 21 <170> SOFTWARE: PatentIn version 3.2
 23 <210> SEQ ID NO: 1
 24 <211> LENGTH: 549
 25 <212> TYPE: DNA
 26 <213> ORGANISM: Ctenocephalides felis
 28 <400> SEQUENCE: 1

Does Not Comply
 Corrected Diskette Needed

P.3, 6-7

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31	gtcttttca ttttcttttgc ttatgcctg attattctta atgaact'gga tgcgatgcga	120
33	gtaattccag gaggtcgata tgaaaaacac aactacaaag gaaaacagcc tgagaaaaat	180
35	acaatataagg aaccggcag ctattaacta ttatgaccac aaagatggag caaaaatagt	240
37	taagtcatca cactcgaat tagattacat gtttagaaga aaaatcacat tcttcgtcat	300
39	ggctcaagga ttaccgcac cttcaataac ttggtttaag gatggagttg agttatttca	360
41	tcatcgattt ttccaaggttc atgaatggcc atggaaaatg atactttgaa atctaaaatg	420
43	gaaatcgatc ctacgaccca aaaagatgca ggttattacg aatgctggca gacaatcaat	480
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55	<400> SEQUENCE: 2	
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60	tgtatatttt atattgtatt tacagtatgt gaaggggttt taggccttc tatttttagtt	180
62	gcaataattc cgtaactcatg gtaatgatta tttaaaaaga tttaatataa tacaatgtta	240
64	aaatttttaa taataatatt tttaataatc cctattttt tattaaaaaa ttgttattga	300
66	ttggttcaaa caatattatt tataatatta ttatattata taattttagg aataaaaaga	360
68	attataattt gttatattt attaaatttt ggttatgata ttatatttta tagattgaat	420
70	ttattaagga tttaattat tattttataa ttaatagcat caattttat ttataaaaat	480
72	aattataatt taaattattt ttattattat taattttta ttatataat tatttttacc	540
74	tttagtcat	549

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/642,272

DATE: 08/28/2003
TIME: 10:52:52

Input Set : C:\CRF4\Datohold\FC-8-C2-PCT.txt
Output Set: N:\CRF4\08282003\J642272.raw

77 <210> SEQ ID NO: 3
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 79 <212> TYPE: DNA
 80 <213> ORGANISM: Ctenocephalides felis
 83 <220> FEATURE:
 84 <221> NAME/KEY: misc_feature
 85 <222> LOCATION: (129)..(129)
 86 <223> OTHER INFORMATION: n = unknown at position 129
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 89 <221> NAME/KEY: misc_feature
 90 <222> LOCATION: (154)..(154)
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 106 <223> OTHER INFORMATION: n = unknown at position 475
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 111 gtccccactt ggttaaaatt gaatggagaa gatgtcaaag aacagattt taaaacttggaa 120
 W--> 113 aagatggtn taatccatca caaatctgggt gtnttcttaa gggatttctca tggggtcgccc 180
 115 caagttcgat ttgtcagtgg caacaaaatc ttgcgtatca tgaaagccat gggagtagcc 240
 117 cctgaattac ctgaagattt atactattt atcaagaagg ctgtagctat ccgcangcat 300
 119 ttggaaagga accgcnaagga caaagacacgc aaattccgtt tgatttttga gaatccagaa 360
 121 ttcacagact tgcccggttac tacaaaaaca agagcatctt ggacccaact ggaaatacga 420
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 130 <212> TYPE: DNA
 131 <213> ORGANISM: Ctenocephalides felis
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 138 caaatgccat ctgacaaaac tattggaggc ggtgatgact ctttcaacac ctttttcagt 180
 140 gagacagggg caggcaagca tgtgccacga gctgtctttg ttgatttggaa accaactgtt 240
 142 gtagatgagg tccgactgg aacataccgt caattattcc acccagaaca actgattact 300
 144 ggcaagaag atgctgccaa caattatgca cggtgtcaact acacaattgg caaagaaatc 360
 146 gttgatgtt tattggcaga attcgaaatt gctgatcaat gcactgtctg caaggtttct 420
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 150 gctat 485
 153 <210> SEQ ID NO: 5

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/642,272

DATE: 08/28/2003
TIME: 10:52:52

Input Set : C:\CRF4\Datashold\FC-8-C2-PCT.txt
Output Set: N:\CRF4\08282003\J642272.raw

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156 <213> ORGANISM: Ctenocephalides felis
158 <400> SEQUENCE: 5
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163 tcatacttaa aatagttacc ctttttaatt tttacagtat ttaaatttaa tagttggat      180
165 agtattttat aaattttat ttgaagcatt cctttatagg tttggaaatt atattttac      240
167 aaaaaaaaaat aaccgtcca attgatttt aacaaaacca taaaaaacta ggtgctataag      300
169 taaacagcat ttgatttgat gtatacattt cattgaaatg agtggagaag caagatgaaa      360
171 gcctatccat taatgactta agactttta gaaatgtttt atatatacat atgtatgcta      420
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W--> 184 000
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188 <212> TYPE: DNA
189 <213> ORGANISM: Ctenocephalides felis
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193 <221> NAME/KEY: misc_feature
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195 <223> OTHER INFORMATION: n = unknown at position 143
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202 <400> SEQUENCE: 7
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W--> 207 gaatatccga atatccgaat atncgaatat ccgaatatcc gaatatncga atatccgaat      180
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214 <212> TYPE: DNA
215 <213> ORGANISM: Ctenocephalides felis
218 <220> FEATURE:
219 <221> NAME/KEY: misc_feature
220 <222> LOCATION: (475)..(475)
221 <223> OTHER INFORMATION: n = unknown at position 475
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228 gaatctagcg accatggtga agttactatt acagagatgg agaacggaca ccaacacgaa      180
230 ggtggcgagt acaccaaggc catgaacaag gactggcactt ctggctactt ctgctgctgg      240

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→ delete, see item 8
on error summary
sheet.

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/642,272

DATE: 08/28/2003
TIME: 10:52:52

Input Set : C:\CRF4\Datahold\FC-8-C2-PCT.txt
Output Set: N:\CRF4\08282003\J642272.raw

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234	atcaagtgtc acgagagcgt ctttccaac acctgcgagg aatgcagcaa gtcattggc	360
236	attgattcca aggacttac ttacaagaa aagcattggc atgaggcatg ttcttgtgc	420
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253	actgtactg tgcttgccag agctattgca aaggaaggct ttgaaaaat atctaaagga	180
255	gcaaatttcca ttgaaatcag acgagggttt atgctggctt ttgatgcagt caaagaatct	240
257	ttgaaaggaa tgtcgaagcc tggtaactacc cccgaggaaaa ttgcacaagt tgtaaccatt	300
259	tctgccaatg gagacaaagc tattggaaaa ttgatcttag atgcaatgaa gcgtgttgg	360
261	aaggaagggtg taataacggt taaagatgga aaaactttac atgatgaact tgaggcatt	420
263	gagggcatga agttgatag aggtatctt caccttactt tatgaaattcc agcaaagggtg	480
265	ctaaagtaga attccaagat ctttattttg tcagtgcacaa aaaatactca gtcaagcata	540
267	ttctgcttg	549
270	<210> SEQ ID NO: 10	
271	<211> LENGTH: 549	
272	<212> TYPE: DNA	
273	<213> ORGANISM: Ctenocephalides felis	
276	<220> FEATURE:	
277	<221> NAME/KEY: misc_feature	
278	<222> LOCATION: (207)..(207)	
279	<223> OTHER INFORMATION: n = unknown at position 207	
281	<220> FEATURE:	
282	<221> NAME/KEY: misc_feature	
283	<222> LOCATION: (513)..(513)	
284	<223> OTHER INFORMATION: n = unknown at position 513	
286	<220> FEATURE:	
287	<221> NAME/KEY: misc_feature	
288	<222> LOCATION: (515)..(515)	
289	<223> OTHER INFORMATION: n = unknown at position 515	
291	<400> SEQUENCE: 10	
292	acggcaggct atgcttcaag ccaccaagga tgccaaacaag aagggccccca acttcaccat	60
294	caccaaaaag gacagcaact tcaacatgtc ttctgccccaa attgaaagaa acaagaccaa	120
296	ggaacaatttgcgaaaggaaa agaaaatttc tctgtccttc cgtatcaagc ctctggatat	180
W--> 298	cgaatctctt agcggttggaa aactcanaca aaaggccaaat gaactttggg aatgcacgt	240
300	caagttggaa actgagaaat acgatcttggaa ggaacgccaa aaacgcccagg actacgatct	300
302	taaagaatttgcgaaaggc agaaaacaaca actcagacac aaagcatttgcgaaaggatt	360
304	ggatccagaa gcctcacag gaaaatccc cccaaaatcc aagtcgctcc aaatatgaga	420
306	gacgtgtcgc acaagatcat atgatgataa gaaaaatttttgcgaaaggcgttgcacat	480
308	tgtctcttgcgaa gtaatgaaaatggaaaca gcntncaact attcagaaac gtagtaaact	540
310	agcttcttgcgaa	549
313	<210> SEQ ID NO: 11	
314	<211> LENGTH: 87	

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/642,272

DATE: 08/28/2003
TIME: 10:52:52

Input Set : C:\CRF4\Datahold\FC-8-C2-PCT.txt
Output Set: N:\CRF4\08282003\J642272.raw

```

315 <212> TYPE: DNA
316 <213> ORGANISM: Ctenocephalides felis
318 <400> SEQUENCE: 11
319 aatttccagc gcgctcagta ccaccacgtc gagacgatca accgatgcgc ctttcgaacc      60
321 ccagtttagcg tactggttgg cgctgat                                87
324 <210> SEQ ID NO: 12
325 <211> LENGTH: 268
326 <212> TYPE: DNA
327 <213> ORGANISM: Ctenocephalides felis
330 <220> FEATURE:
331 <221> NAME/KEY: misc_feature
332 <222> LOCATION: (30)..(31)
333 <223> OTHER INFORMATION: n = unknown at positions 30 and 31
335 <400> SEQUENCE: 12
W--> 336 acggtttaca ccctagtcgc gcctaaagan nttttattta aaaacaaaatt gtattactt      60
338 taacaagtta ctctacaat ttgaaaaac catgttgat ttttaactac tagtgtaata      120
340 tttttgttaa aatatattat tttgtctgt cccaaacgaa tgattttctt gcggccctgc      180
342 ctgttgcaga tattcctaca cacgttatta taagtcacgc tgtttgcgc ccgtagcaat      240
344 tacgcgcccc gttcgcccg ttcgttgt                                268
347 <210> SEQ ID NO: 13
348 <211> LENGTH: 436
349 <212> TYPE: DNA
350 <213> ORGANISM: Ctenocephalides felis
352 <400> SEQUENCE: 13
353 attttaaatt tttataaaa ataatattta aaattataaa aaatatgaaa taatgattaa      60
355 attagtataa tataatttat tgataatattt aaattgttag gtttatttaa ggaattcggc      120
357 aaatataata ttcacctgtt taacaaaaac atgtctttt gaaaataata taaagtctaa      180
359 tctgcccatt gaagatttaa aaggccgcag taatttgact gtgcaaagg agcataatca      240
361 atagttttt aattgaaagc tggaatgat gattgaatga aatattaact gtcttaataa      300
363 aattgttata gaatttaatt tttatgttaa aaagcgtaaa tattattaaa ggacgagaag      360
365 accctttaaa gttttatata taaatataga ttattnaag aatattatta aatttattta      420
367 tattaaataa ttattt                                436
370 <210> SEQ ID NO: 14
371 <211> LENGTH: 324
372 <212> TYPE: DNA
373 <213> ORGANISM: Ctenocephalides felis
375 <400> SEQUENCE: 14
376 accttgaata gtaataatta tctcttcag gaccccccatt tcgaatcaat attataattta      60
378 aaccttctac tttcagtgtc gatgtatcct ttatctatat atatgcattt agcaattgtt      120
380 taattttatata aataatgtgt atactttcgat aggttatggt agcgcatttc cacattatcc      180
382 aattttaaatgt tcacaaaatgt ctctaattgtc agtcgtgtct tgtgtgtttc gtagagaatt      240
384 tagtcggaca attgtaaaat gtcaaataaga cttgtaaaag acaaagttt gtagtggttc      300
386 taaagtatgt atattgtgtc gagt                                324
389 <210> SEQ ID NO: 15
390 <211> LENGTH: 391
391 <212> TYPE: DNA
392 <213> ORGANISM: Ctenocephalides felis
395 <220> FEATURE:
396 <221> NAME/KEY: misc_feature

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/642,272

DATE: 08/28/2003
TIME: 10:52:53

Input Set : C:\CRF4\Datashold\FC-8-C2-PCT.txt
Output Set: N:\CRF4\08282003\J642272.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 129,154,296,316,475
Seq#:7; N Pos. 143,167
Seq#:8; N Pos. 475
Seq#:10; N Pos. 207,513,515
Seq#:12; N Pos. 30,31
Seq#:15; N Pos. 385
Seq#:16; N Pos. 100,123,132,162,178,182,184,248,286,342,403
Seq#:17; N Pos. 399,448,462,486
Seq#:24; N Pos. 230,334,394,459
Seq#:26; N Pos. 403
Seq#:27; N Pos. 445
Seq#:28; N Pos. 422,479,520
Seq#:29; N Pos. 185,258,283
Seq#:31; N Pos. 2,216,332,406,463,467
Seq#:33; N Pos. 344
Seq#:34; N Pos. 403
Seq#:36; N Pos. 445,451
Seq#:38; N Pos. 286
Seq#:39; N Pos. 426
Seq#:45; N Pos. 488
Seq#:54; N Pos. 581
Seq#:57; N Pos. 496
Seq#:59; N Pos. 61,69
Seq#:60; N Pos. 62
Seq#:62; N Pos. 194,248,279
Seq#:63; N Pos. 5,15,16,20,24,29,31,43,48,55,127
Seq#:65; N Pos. 4,12,19,22,41,74,82,107,216,252,298,450
Seq#:67; N Pos. 30,73
Seq#:70; N Pos. 49,71
Seq#:71; N Pos. 207,227,304
Seq#:74; N Pos. 108,284
Seq#:75; N Pos. 108,284
Seq#:76; N Pos. 39,61,182
Seq#:77; N Pos. 436,442
Seq#:78; N Pos. 13,67
Seq#:79; N Pos. 55
Seq#:81; N Pos. 11,28,31,72,74,105,128,170,424,457,490
Seq#:83; N Pos. 205
Seq#:84; N Pos. 4,35,156,181,233
Seq#:85; N Pos. 19
Seq#:88; N Pos. 59,365,404,456
Seq#:89; N Pos. 24,50,92,282
Seq#:90; N Pos. 28,66,73
Seq#:91; N Pos. 46,208,223,234,289

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/642,272

DATE: 08/28/2003
TIME: 10:52:53

Input Set : C:\CRF4\Datahold\FC-8-C2-PCT.txt
Output Set: N:\CRF4\08282003\J642272.raw

Seq#:92; N Pos. 49,59,61,68
Seq#:94; N Pos. 58,243
Seq#:95; N Pos. 38,129,134,164,188,230,239,289,303,307,349,417,419
Seq#:96; N Pos. 493
Seq#:97; N Pos. 30,63
Seq#:98; N Pos. 36,40
Seq#:99; N Pos. 23,24

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/642,272

DATE: 08/28/2003
TIME: 10:52:53

Input Set : C:\CRF4\Datashold\FC-8-C2-PCT.txt
Output Set: N:\CRF4\08282003\J642272.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number
L:14 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:113 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:120
M:341 Repeated in SeqNo=3
L:184 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (6) SEQUENCE:
L:207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:120
L:238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:420
L:298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:180
M:341 Repeated in SeqNo=10
L:336 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0
L:413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:360
L:480 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:60
M:341 Repeated in SeqNo=16
L:534 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:360
M:341 Repeated in SeqNo=17
L:696 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:180
M:341 Repeated in SeqNo=24
L:746 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:360
L:779 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:420
L:820 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:420
M:341 Repeated in SeqNo=28
L:855 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:180
M:341 Repeated in SeqNo=29
L:912 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
M:341 Repeated in SeqNo=31
L:976 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:300
L:1009 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:360
L:1066 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:420
L:1075 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (37) SEQUENCE:
L:1097 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:240
L:1132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:420
L:1266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:480
L:1471 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:540
L:1583 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (56) SEQUENCE:
L:1613 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:57 after pos.:480
L:1650 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:60
L:1677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:60 after pos.:60
L:1731 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:62 after pos.:180
M:341 Repeated in SeqNo=62
L:1795 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0
M:341 Repeated in SeqNo=63
L:1894 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:65 after pos.:0
M:341 Repeated in SeqNo=65
L:1941 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:0
M:341 Repeated in SeqNo=67
L:2017 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:0
M:341 Repeated in SeqNo=70
L:2052 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:180

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/642,272

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Input Set : C:\CRF4\Datohold\FC-8-C2-PCT.txt
Output Set: N:\CRF4\08282003\J642272.raw

M:341 Repeated in SeqNo=71
L:2112 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:60
M:341 Repeated in SeqNo=74
L:2142 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:60
M:341 Repeated in SeqNo=75
L:2175 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:76 after pos.:0
M:341 Repeated in SeqNo=76
L:3752 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (124) SEQUENCE:
L:4040 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (134) SEQUENCE:
L:4861 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (164) SEQUENCE:
L:7893 M:300 W: (50) Intentionally skipped Sequence, : Sequence Id (257) SEQUENCE: